PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
042347woMemh	ACTION as we	ll as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP2004/013111	18/11/2004	19/11/2003
Applicant		
EVOTEC NEUROSCIENCES GMBH		
This international Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Au ansmitted to the International Bureau.	thority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
X It is also accompanied by	a copy of each prior art document cited in thi	s report.
Basis of the report a. With regard to the language, the language in which it was filed, un	international search was carried out on the bless otherwise indicated under this item.	asis of the international application in the
The international this Authority (Ru		slation of the International application furnished to
b. X With regard to any nucle	otide and/or amino acid sequence disclose	d in the international application, see Box No. I.
2. X Certain claims were for	ınd unsearchable (See Box II).	
3. Unity of invention is lac	sking (see Box III).	
4. With regard to the title,		
X the text is approved as s	ubmitted by the applicant.	
the text has been establi	shed by this Authority to read as follows:	
	•	
5. With regard to the abstract,		
	ubmitted by the applicant.	
the text has been establi	shed, according to Rule 38.2(b), by this Author	ority as it appears in Box No. IV. The applicant
may, within one month fi	rom the date of mailing of this international se	arch report, submit comments to this Authority.
6. With regard to the drawings,		
1	published with the abstract is Figure No0	1
X as suggested by		
as selected by the	his Authority, because the applicant falled to s	uggest a figure.
as selected by t	his Authority, because this figure better chara	cterizes the invention.
b. none of the figures is to	be published with the abstract.	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2004/013111

Вох	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	With i	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, the international search was carried out on the basis of:
	a.	type of material X a sequence listing table(s) related to the sequence listing
	b.	format of material X in written format X in computer readable form
	C.	contained in the international application as filed filed together with the international application in computer readable form furnished subsequently to this Authority for the purpose of search
2.	х	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed, as appropriate, were furnished.
3.	Addi	itional comments:

INTERNATIONAL SEARCH REPORT

Intel Ional Application No PCT/EP2004/013111

A. CLASSIF IPC 7	GO1N33/68		•
		-pr	
	International Patent Classification (IPC) or to both national classification	on and IPC	
B. FIELDS S	SEARCHED cumentation searched (classification system followed by classification	symbols)	
IPC 7	G01N		
Documentati	ion searched other than minimum documentation to the extent that suc	ch documents are included in the fields s	searched
Electronic da	ala base consulted during the international search (name of data base	and, where practical, search terms use	d)
EPO-Ini	ternal, BIOSIS		
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the rele	ant passages	Relevant to claim No.
X	WO 99/38983 A (SMITHKLINE BEECHAM	PLC)	2,4
	5 August 1999 (1999-08-05) abstract page 12, paragraphs 1,2; claims 1 page 1, paragraph 4	3,14,17	
A	WO 02/22078 A (ATAIRGIN TECHNOLOG 21 March 2002 (2002-03-21) the whole document	IES, INC)	1–12
	- <u>-</u>	/	
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	_		
X Furt	ther documents are listed in the continuation of box C.	X Patent family members are lister	d in annex.
° Special ca	ategories of cited documents:	T° later document published after the in	iternational filing date
"A" docum	ent defining the general state of the art which is not dered to be of particular relevance	or priority date and not in conflict wi cited to understand the principle or invention	th the application but
filing	date	'X" document of particular relevance; the cannot be considered novel or cannot be considered novel or cannot be only on the construction.	ot be considered to
which	ent which may throw doubts on priority claim(s) or nis cited to establish the publication date of another no or other special reason (as specified)	'Y' document of particular relevance; the cannot be considered to involve an	claimed invention
O' docum	nent referring to an oral disclosure, use, exhibition or means	document is combined with one or i ments, such combination being obv	nore other such docu-
"P" docum later t	nent published prior to the international filing date but than the priority date claimed	in the art. *&* document member of the same pale.	nt family
Date of the	e actual completion of the international search	Date of mailing of the international s	earch report
2	28 April 2005	11/05/2005	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2	Authorized officer ~-	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: 431-70) 340-3016	Weijland, A	

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intermional Application No
PCT/EP2004/013111

		PCT/EP2004/013111
C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
А	ZHOU J AND SABA J: "Identification of the First Mammalian Sphingosine Phosphate Lyase Gene and Its Functional Expression in Yeast" BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, ACADEMIC PRESS INC. ORLANDO, FL, US, vol. 242, 1998, pages 502-507, XP002097301 ISSN: 0006-291X the whole document	1–12
X	WO 99/16888 A (CHILDREN'S HOSPITAL OAKLAND RESEARCH INSTITUTE; CHILDREN'S HOSPITAL ME) 8 April 1999 (1999-04-08) abstract page 22, paragraphs 1,2; claim 48	1,3,6,7,
A	SOREGHAN BRIAN ET AL: "Aberrant sphingomyelin/ceramide metabolic-induced neuronal endosomal/lysosomal dysfunction: Potential pathological consequences in age-related neurodegeneration." ADVANCED DRUG DELIVERY REVIEWS, vol. 55, no. 11, 14 November 2003 (2003-11-14), pages 1515-1524, XP002326245 ISSN: 0169-409X the whole document	1-12





Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
- This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 7.8 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
_3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

IN RNATIONAL SEARCH REPORT

Information on patent family members

Intermional Application No
PCT/EP2004/013111

Patent document - cited in search report		Publication date		Patent family member(s)	Publication date
WO 9938983	Α	05-08-1999	WO EP JP US US	9938983 A1 1060256 A1 2002501751 T 6187562 B1 2002168710 A1	05-08-1999 20-12-2000 22-01-2002 13-02-2001 14-11-2002
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WO 9916888	A	08-04-1999	US AU CA EP JP US WO US US	6423527 B1 9779498 A 2305686 A1 1027443 A2 2001518303 T 2003175939 A1 9916888 A2 2003166897 A1 2003059922 A1 6569666 B1 6495359 B1	23-07-2002 23-04-1999 08-04-1999 16-08-2000 16-10-2001 18-09-2003 08-04-1999 04-09-2003 27-03-2003 27-05-2003 17-12-2002